

**AMENDMENTS TO CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-31 (canceled)

Claim 32 (new): An isolated polynucleotide comprising:

- (a) a nucleotide sequence encoding a polypeptide having myo-inositol monophosphatase activity, wherein the polypeptide has an amino acid sequence of at least 80% sequence identity, based on the Clustal method of alignment, when compared to SEQ ID NO:8, or
- (b) a full-length complement of the nucleotide sequence of (a).

Claim 33 (new): The polynucleotide of Claim 32, wherein the amino acid sequence of the polypeptide has at least 85% sequence identity, based on the Clustal method of alignment, when compared to SEQ ID NO:8.

Claim 34 (new): The polynucleotide of Claim 32, wherein the amino acid sequence of the polypeptide has at least 90% sequence identity, based on the Clustal method of alignment, when compared to SEQ ID NO:8.

Claim 35 (new): The polynucleotide of Claim 32, wherein the amino acid sequence of the polypeptide has at least 95% sequence identity, based on the Clustal method of alignment, when compared to SEQ ID NO:8.

Claim 36 (new): The polynucleotide of Claim 32, wherein the amino acid sequence of the polypeptide comprises SEQ ID NO:8.

Claim 37 (new): The polynucleotide of Claim 32, wherein the nucleotide sequence comprises SEQ ID NO:7.

Claim 38 (new): A vector comprising the polynucleotide of Claim 32.

Claim 39 (new): A recombinant DNA construct comprising the polynucleotide of Claim 32 operably linked to suitable regulatory sequences.

Claim 40 (new): A method for transforming a cell, comprising transforming a cell with the polynucleotide of Claim 32.

Claim 41 (new): A cell comprising the recombinant DNA construct of Claim 39.

Claim 42 (new): A method for producing a plant comprising transforming a plant cell with the polynucleotide of Claim 32 and regenerating a plant from the transformed plant cell.

Claim 43 (new): A plant comprising the recombinant DNA construct of Claim 39.

Claim 44 (new): A seed comprising the recombinant DNA construct of Claim 39.